

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) An apparatus for holding an organ or tissue for at least one of perfusion, storage, diagnosis and transport of the organ, comprising:

a portable housing for holding the organ or the tissue, the portable housing enclosing a first set of tube segments and defining one or more openings; and

a tube frame removably connectible to the portable housing and configured to hold a second set of tube segments at respective predetermined positions where they are directly connectible to the first set of tube segments by way of at least one of the one or more openings, each of the predetermined positions corresponding to a location of the one or more openings, wherein

the tube frame is adjacent to the portable housing at at least one of the predetermined ~~positions~~positions, and

the portable housing, the first set of tube segments, and the second set of tube segments form at least part of a closed fluid circuit, the closed fluid circuit being configured to allow the portable housing, the first set of tube segments, the second set of tube segments and the tube frame to be installed in and removed from an organ transporter, organ perfusion device or organ diagnostic device as a unit without breaking the closed fluid circuit.

2. (Previously Presented) The apparatus of claim 1, wherein at least some of the plurality of tube segments connectible to the tube frame are in fluid communication with the plurality of tube segments in the portable housing.

3. (Previously Presented) The apparatus of claim 2, wherein the tube segments in fluid communication allow a medical fluid to travel at least one of into and out of the portable housing.

4. (Original) The apparatus of claim 1, further comprising an organ or tissue supporting surface configured to support the organ or tissue within said portable housing while allowing effluent medical fluid to pass through said organ or tissue and form an organ bath.

5. (Previously Presented) The apparatus of claim 4, wherein at least one tube segment of the plurality of tube segments in the portable housing has a first end in fluid communication with the organ bath and a second end connectible with at least one of the plurality of tube segments connectible to the tube frame.

6. (Previously Presented) The apparatus of claim 1, further comprising a filter, wherein one of the plurality of tube segments in the portable housing has a first end connectible to the filter and a second end connectible to one of the plurality of tube segments connectible to the tube frame.

7. (Previously Presented) The apparatus of claim 1, wherein at least one of the plurality of tube segments connectible to the tube frame includes a sample port.

8. (Previously Presented) The apparatus of claim 1, further comprising a pressure sensor connectible to the tube frame, wherein the pressure sensor determines a pressure of a fluid in at least one of the plurality of tube segments connectible to the tube frame.

9. (Original) The apparatus of claim 1, further comprising a bubble trap device connectible to the tube frame.

10. (Previously Presented) The apparatus of claim 9, wherein one or more of the plurality of tube segments in the portable housing are connectible to one or more of the plurality of tube segments connectible to the tube frame, wherein the one or more tube segments connectible to the tube frame are connectible to at least one of an inlet and an outlet port of the bubble trap device.

11. (Previously Presented) The apparatus of claim 1, wherein one or more of the plurality of tube segments in the portable housing are connectible to an organ or tissue.

12. (Previously Presented) The apparatus of claim 11, wherein the one or more tube segments connectible to the organ are connectible to one or more tube segments connectible to the tube frame.

13. (Original) The apparatus of claim 1, wherein at least part of the tube frame is connectible to a connection device of the portable housing.

14. (Original) The apparatus of claim 13, wherein the connection device is at least one of snaps, pins, clips and screws.

15. (Currently Amended) The apparatus of claim 1, wherein the one or more openings in the portable housing are configured to allow at least one of the plurality of tube segments connectible to the tube frame and the plurality of tube segments in the portable housing to pass through each of the at least one ~~opening~~openings.

16. (Original) The apparatus of claim 1, further comprising at least one of an organ transporter, an organ perfusion device and an organ diagnostic device, wherein the portable housing is configured to be received by the at least one of the organ transporter, organ perfusion device and the organ diagnostic device.

17. (Original) The apparatus of claim 16, wherein at least part of the tube frame is connectible to a connection device of at least one of the organ transporter, organ perfusion device and the organ diagnostic device.

18. (Previously Presented) The apparatus of claim 17, further comprising a pump, wherein the pump controls fluid flow through the plurality of tube segments.

19. (Original) The apparatus of claim 18, wherein the pump is connected to at least one of the organ transporter, the organ perfusion device and the organ diagnostic device.

20. (Original) The apparatus of claim 19, wherein the pump is a peristaltic pump.

21. (Previously Presented) The apparatus of claim 20, wherein at least a part of one of the plurality of tube segments connectible to the tube frame is in contact with the peristaltic pump and connectible with one or more of the tube segments connectible to the tube frame.

22. (Original) The apparatus of claim 17, wherein the connection device is at least one of snaps, pins, clips and screws.

23. (Previously Presented) The apparatus of claim 17, wherein each of the organ transporter, the organ perfusion device and the organ diagnostic device include a sensor to detect at least one of a proper and an improper connection between the tube frame and each of the at least one organ transporter, organ perfusion device and the organ diagnostic device.

24. (Original) The apparatus of claim 23, wherein the sensor is at least one of an electrical and mechanical sensor.

25. (Original) The apparatus of claim 24, wherein the sensor alerts a user of the at least one of a proper and improper connection by at least one of an audio and a visual signal.

26. (Original) The apparatus of claim 1, wherein the tube frame is made of plastic.

27. (Withdrawn-Currently Amended) A method of at least one of perfusion, storage, and transport of an organ or tissue, comprising:

placing an organ or tissue in a portable housing, the portable housing enclosing a first set of tube segments and defining one or more openings; and

connecting a tube frame to the portable housing, wherein:

the tube frame is configured to hold a second set of tube segments at respective predetermined positions and is removably connected to the portable housing,

the tube frame holds the second set of tube segments in predetermined positions where they are directly connectible to the first set of tube segments by way of at

least one of the one or more openings, each of the predetermined positions corresponding to a location of the one or more openings, and

the tube frame is adjacent to the portable housing at at least one of the predetermined ~~positions~~positions, and

the portable housing, the first set of tube segments, and the second set of tube segments form at least part of a closed fluid circuit, the closed fluid circuit being configured to allow the portable housing, the first set of tube segments, the second set of tube segments and the tube frame to be installed in and removed from an organ transporter, organ perfusion device or organ diagnostic device as a unit without breaking the closed fluid circuit.

28. (Withdrawn) The method of claim 27, wherein at least some of the plurality of tube segments connectible to the tube frame are in fluid communication with the plurality of tube segments in the portable housing.

29. (Withdrawn) The method of claim 28, wherein the tube segments in fluid communication allow a medical fluid to travel at least one of into and out of the portable housing.

30. (Withdrawn) The method of claim 27, further comprising supporting an organ or tissue on an organ or tissue supporting surface within said portable housing.

31. (Withdrawn) The method of claim 30, further comprising passing effluent medical fluid through said organ or tissue.

32. (Withdrawn) The method of claim 31, further comprising forming an organ bath with said medical fluid.

33. (Withdrawn) The method of claim 32, further comprising:
placing a first end of at least one tube segment of the plurality of tube segments in the portable housing in fluid communication with the organ bath; and

connecting a second end with at least one of the plurality of tube segments connectible to the tube frame.

34. (Withdrawn) The method of claim 27, further comprising connecting a first end of one of the plurality of tube segments in the portable housing to a filter; and connecting a second end to one of the plurality of tube segments connectible to the tube frame.

35. (Withdrawn) The method of claim 27, wherein at least one of the plurality of tube segments connectible to the tube frame includes a sample port.

36. (Withdrawn) The method of claim 27, further comprising connecting a bubble trap device to the tube frame.

37. (Withdrawn) The method of claim 36, further comprising connecting one or more of the plurality of tube segments in the portable housing to one or more of the plurality of tube segments connectible to the tube frame and connecting the one or more tube segments connectible to the tube frame to at least one of an inlet and an outlet port of the bubble trap device.

38. (Withdrawn) The method of claim 27, connecting one or more of the plurality of tube segments in the portable housing to an organ or tissue.

39. (Withdrawn) The method of claim 38, further comprising connecting the one or more tube segments connected to the organ to one or more tube segments connected to the tube frame.

40. (Withdrawn) The method of claim 27, further comprising connecting at least part of the tube frame to a connection device of the portable housing.

41. (Withdrawn) The method of claim 27, wherein the portable housing is received by at least one of the organ transporter, organ perfusion device and the organ diagnostic device.

42. (Withdrawn) The method of claim 41, further comprising connecting at least part of the tube frame to a connection device of at least one of the organ transporter, organ perfusion device and the organ diagnostic device.

43. (Withdrawn) The method of claim 42, further comprising controlling fluid flow through the plurality of tube segments with a pump.

44. (Withdrawn) The method of claim 43, wherein the pump is connected to at least one of the organ transporter, the organ perfusion device and the organ diagnostic device.

45. (Withdrawn) The method of claim 41, further comprising detecting at least one of a proper and improper connection between the tube frame and each of the at least one organ transporter, organ perfusion device and the organ diagnostic device.

46. (Withdrawn) The method of claim 45, further comprising alerting a user of the at least one of a proper and improper connection by at least one of an audio and a visual signal.

47. (Currently Amended) An apparatus for holding an organ or tissue for at least one of perfusion, storage, diagnosis and transport of the organ, comprising:

a tube frame configured to hold a first set of tube segments at respective predetermined positions where they are directly connectible to a second set of tube segments of a portable housing for holding the organ or the tissue by way of one or more openings, wherein the tube frame is adjacent to the portable housing at at least one of the predetermined ~~positions-positions~~,

wherein the portable housing, the first set of tube segments, and the second set of tube segments form at least part of a closed fluid circuit, the closed fluid circuit being configured to allow the portable housing, the first set of tube segments, the second set of tube segments and the tube frame to be installed in and removed from an organ transporter, organ perfusion device or organ diagnostic device as a unit without breaking the closed fluid circuit.

48. (Previously Presented) The apparatus of claim 1, wherein the tube segments of the first set of tube segments are configured to be horizontally aligned within the tube frame on a same horizontal plane.

49. (Previously Presented) The apparatus of claim 47, wherein the one or more openings of the portable housing are on a side surface of the portable housing and are horizontally aligned on a same horizontal plane.

50. (Previously Presented) The apparatus of claim 49, wherein the one or more openings are horizontally aligned on a same horizontal line.

51. (Previously Presented) The apparatus of claim 50, wherein the horizontal plane of the first set of tube segments, the one or more openings and the predetermined positions is the same horizontal plane.

52. (Previously Presented) The apparatus of claim 1, wherein the tube frame is adjacent to the portable housing at at least two of the predetermined positions.

53. (Previously Presented) The apparatus of claim 1, wherein the tube frame is adjacent to the portable housing at each of the predetermined positions.

54. (Previously Presented) The apparatus of claim 1, wherein tube segments of the first set of tube segments and the second set of tube segments that are disposed at the one or more openings are disposed and aligned horizontally at the one or more openings.

55. (Canceled)

56. (Canceled)

57. (Currently Amended) The apparatus of ~~claim 47~~claim 1, wherein the one or more openings of the portable housing are on a side surface of the portable housing and are horizontally aligned on a same horizontal plane.

58. (Canceled)

59. (Previously Presented) The apparatus of claim 47, wherein tube segments of the first set of tube segments and the second set of tube segments that are disposed at the one or more openings are disposed and aligned horizontally at the one or more openings.

60. (Currently Amended) The apparatus of ~~claim 50~~claim 57, wherein the one or more openings are horizontally aligned on a same horizontal line.

61. (Previously Presented) The method of claim 27, further comprising disposing tube segments of the first set of tube segments and the second set of tube segments at the one or more openings such that the tube segments are aligned horizontally at the one or more openings.

62. (Previously Presented) The method of claim 27, wherein the one or more openings of the portable housing are on a side surface of the portable housing and are horizontally aligned on a same horizontal plane.

63. (Previously Presented) The method of claim 62, wherein the one or more openings are horizontally aligned on a same horizontal line.

64. (Currently Amended) An apparatus for holding an organ or tissue for at least one of perfusion, storage, diagnosis and transport of the organ, comprising:

a portable housing for holding the organ or the tissue, the portable housing enclosing a first set of tube segments; and

a second set of tube segments held by a tube frame at respective predetermined positions relative to and outside of the portable housing;

wherein the portable housing, the first set of tube segments, and the second set of tube segments form at least part of a closed fluid circuit, the closed fluid circuit being configured to allow the portable housing, the first set of tube segments, and the second set of tube segments to be installed in and removed from an organ transporter, organ perfusion device or organ diagnostic device as a unit without breaking the closed fluid circuit.

65. (New) The apparatus of claim 64, wherein tube segments of the first set of tube segments and the second set of tube segments are connectible by way of one or more openings in the portable housing and are aligned at the one or more openings.

66. (New) The apparatus of claim 65, wherein the one or more openings are horizontally aligned on a same horizontal line.

67. (New) The apparatus of claim 65, wherein the one or more openings are horizontally aligned on a same horizontal plane.